

WAR'S MANY CHANGES

Horrible Artillery, Motor Camp-Wagons, and Bicycles.

IN THE NEXT STRUGGLE.

Submarine Boats and Airships—The

Veterans of Thirty Years Ago Would Feel Lost in an Army with Modern Equipments.

(Written for the Dispatch.)

If the war becomes a reality it will be as different from the struggle of a generation ago as that war was from the battles of the Middle Ages. Science, which made the battle of the future like a game of chess, with the opposing generals sitting far away from the scene of actual strife, and moving the great bodies of men under their like the skillful player moves chessmen, General Von Moltke, in the Franco-Prussian struggle, was the first to play the game of war in this way, and a wonderful series of successes resulted.

It would take a large-sized book to describe the many unique appliances which will be used in the next war. In the first place, there is the bicycle, and right here it should be stated that the bicycle



REGULAR-ARMY CYCLER.

Within the past year or two, the regular army has been reorganized, and the military general and strategists as a supreme importance in time of war. The United States Military Wheelmen, representing State militia and regular army soldiers and officers the country over, is an organization that is being organized at its first national convention. Major-General Nelson A. Miles, head of the United States army, said of the bicycle:

"We have seen enough to convince many men that it will be one of the most useful appliances in war. I have heard it said that you cannot maneuver large bodies of men on bicycles. I have heard men make that statement, but there are some men who could not maneuver large bodies of men on horse, foot, bicycle, or any other way. Bicycles can be used by men who believe in the bicycle; who have confidence in it, and that it can be used for war purposes. It can be used in some places where a horse cannot be used. The horse can be used in some places where the bicycle cannot be used. You cannot swim a river on a bicycle, but you can cross it there for several days, fish it up, and ride away, which you cannot do with a horse. There are many uses and many to which you can apply a bicycle, where you cannot use a horse, and where a man cannot perform the same service on foot. I think your association to be a commendable one. I do not think it will lessen your interest in the National Guard more than similar private associations of military men have lessened their interest in the service."

WILL PERMIT OF LONG MARCHES.

In many of the States there are bicycle regiments and companies; there are bicycle companies in the regular army, and it is only a question of short time when bicycles will become general in military evolutions. When these are made, marches of 100 miles or more will be made in the light of one day. Forces of double length will easily be made in twenty-four hours. The bicycle needs but little oil, and is always ready.

It is also apparent to progressive military men that with the advent of the bicycle must come the advent of the horseless carriage in the army provision train.

Another important bearing of the coming road-motor upon modern warfare will be the possibility of hauling field cannon without the aid of horses. The field-piece is the clumsiest of all instruments of warfare to manuever during a retreat. For this reason alone, cannon are often deserted in the field to fall into the hands of the enemy.

When good roads make the horseless conveyance popular, we will have to propel our cannon at a rapid rate, and the march, to keep up with the rapid pace of the bicycle cavalry and infantry, and the provision-wagons, propelled by the storage-battery, gasoline, petroleum, and other motors.

MOVABLE FORTS, TOO.

It looks as if the army-munitions would be away like the horse-car not only with the army-wagon and the gun, but also be propelled by their own force,

come into play. Naval scientists have been working on this problem for years, and it is believed that each one of the great nations has a submarine boat capable of doing efficient work. Such a boat would be treacherous as a secret of great value, and every possible means adopted to prevent other nations from learning the details of its construction.

The fact that M. Goubet, a French inventor, has, after four years of work, completed a submarine boat which has been satisfactorily tested, is proof that this deadly vessel will figure in the next war.

The qualities which distinguish a submarine vessel, and without which it would be useless, are habitableness, security, rapidity of immersion and emergence, stability, immobility at a given depth, a ready response to the rudder, and the possibility of the crew being able to manuever from the interior of the boat.

For the first necessity, and, in fact, the most essential of all—viz., habitableness—the crew of the Goubet is provided with air by means of compressed oxygen, which is carried on the vessel in steel tubes, exhausted under a normal pressure. In these conditions, a crew composed of three men could exist in the interior of a submerged vessel for eight hours at least, and if necessary for fifteen hours, without suffering any inconvenience resulting from foul or rarefied air.

SAFETY ASSURED.

Its safety has been assured by extra ballast. Should an unforeseen accident occur to the machinery, the ballast would sink, and the vessel would rise to the surface like a cork. The weight of the Goubet is so calculated that, armed, loaded, and carrying its crew, it will easily float, having but a small portion of its upper hull and its air-tight dome visible, which latter is used as a lookout as it glides through the water.

To submerge the boat it is sufficient to augment its density, and the boat is furnished with interior reservoirs for this purpose. A certain amount of water is introduced by means of a suction and force-pump, and the quantity can be augmented or diminished at will. To sink the boat, the suction-pump draws in enough water for the purpose; when to bring the boat to the surface the force-pump is put in requisition. The Goubet sinks or rises in a vertical position.

The principal obstacle so far to the repelling of a submarine vessel has been its want of stability. In fact, the equilibrium of a boat under such conditions seemed to be at the mercy of the slightest displacement in its interior. Should the ballast slip to the bow or stern, the boat is apt to take a more or less marked inclination, which makes it impossible for a man to remain in it with safety. Owing to its mechanical construction, the Goubet rises or descends without inclining to the bow or stern, and its oscillations never displace its horizontal position more than five or six centimeters.

The motive-power given to the Goubet is furnished by Schaudt's electric battery. A small amount of power only is needed when the boat is completely submerged. The whole secret of managing the Goubet lies in the variations of its specific weight, which is almost exactly equal to the weight of the volume of water which it displaces—that is to say, its weight is nothing. It acts in the water as a piece of cotton wool, and the crew, seated here and there at the mercy of the slightest impulse. This explains why, with one or two horse-power, a swiftness of seven or eight knots may be given to this mass of bronze, whose weight surpasses a ton.

Two torpedoes are fastened under the conical part of the Goubet, which can be discharged by a very clever contrivance by the person seated in the interior. It is also possible to attach a steel rod to the vessel, which can be used to cut the wires of the enemy's torpedoes.

In shape the Goubet is round in the middle, and conical at both ends. It is divided into compartments, and all the parts in the hull, which are airtight, by means of panes of heavy glass, thirty millimetres in thickness, and which are fastened to the hull by means of a man-of-war or rocket-boat.

RAPID-FIRE GUNS.

An idea of the deadly powers of one of the new rapid-fire guns can be gained from the fact that the new Hotchkiss machine-gun fires ten shots a second, or 600 shots a minute, or 36,000 shots an hour.

One man can handle it readily, but the services of another is required to supply ammunition.

The mechanism of the piece is extremely simple. Exclusively of the sights, but including barrel, shoulder-piece, etc., there are only thirty-eight separate parts, and only four springs—the main spring, the rear spring, the extractor, and the pawl spring. All the parts are made to fit together without the use of screws, and no tools are necessary to completely dismount or to assemble the gun excepting a small screw-driver and wrench.

The idea of the piece is to throw a small and very accurate projectile with enormous velocity to a much greater distance with greater precision than formerly.

Just as it comes in an odd point, the weapon is an improvement in the direction of humanity. The bullet travels so fast that apparently it does not pass through the fish or bone without inflicting much shock, making a small, clean hole, and not breaking up the tissues. It goes through the thinner bones—without smashing the ribs, and breast-bone—without smashing the heart.

An opportunity for a first-rate test was afforded by the recent Chitral campaign in India. Wounded men, through their holes, died about twenty hours, not suffering any serious inconvenience. Such was actually the case with a majority of the Swalis, who were hurt in various engagements. This might have been more easily, if only the bullet had been injured, but bones were perforated, and yet the men were not disabled.

Sharpshooters, armed with the modern rifle, will play a great part in the future warfare. The discharge of the new weapon is almost noiseless, and smokeless powder being used, and a bullet being so light, the location of a being nothing to be feared, and a continuous fire can be maintained with accuracy in the ranks of the enemy. The command in the field will see his officers and men fall around him without knowing whence the bullets are struck. Two or three skillful marksmen will be able to pick off every man at a battery of artillery, so as to render the guns of no use. The modern rifle fires five shots from the magazine, and the trigger can be pulled, and quick as a wing another set of five cartridges is substituted for the empty shells in sets of five.

BALLOONS AND AIR-SHIPS.

The balloon will also figure in the next war, and, perhaps, air-ships. France has an air-ship which is carefully guarded. No one is allowed to see it, and no drawings have been made of it. It is said to have a cigar-shaped envelope, within which is the gas and a small bag, which is to be pumped full of air. An electric-motor drives in the rear a screw propeller. It is said that the air-ship can make a speed of at least 100 miles an hour.

The air-ship has just completed the building of a big balloon near Denver, capable of carrying several officers and fitted with telegraph and telephone, and means of communication with the ground, and by means of the wires, the officers in the air will communicate with those below.

In conjunction with the air-ship, the balloon will be used, and on a coil of the wheel the wire is run and paid out as the machine progresses. Thus, when the balloon has started up, the officer on the wheel races for the tent of the general, and the balloon is carried along and left until the tent is reached. This wire makes direct communication between the officers on the field and the man in the air, who, from his station, has a complete view of the enemy, and can thus give important information to his superiors.

Germany has an army of trained bloodhounds for use in event of war. They carry ammunition, and are trained to seek the wounded after a battle. The animals used fierce dogs in their wars, and they invariably terrorized the opposing troops. It is not probable that Uncle Sam will make use of dogs in event of war, as their efficiency is regarded with much doubt.

Our Old Home.

(Written for the Dispatch.)

Blest home, once ours, how oft again In memory's vivid dreams I see its garden in its bloom; Its woodland and its streams.

The tapering poplars stately stand O'er crimsoned and green lawns, And on the quiet moss-covered roof Their shimmering shadows fall.

And still past years their garlands fling O'er scenes of joys untold, Though vines of hope in golden sheen No more their tresses wind.

How like a Titan's shivered shield The sunset waves seem, And as the white waves clasp the waves How bright new diamonds gleam!

With Eden's birth these wild waves beat The light of sun and star, And swirls of green and blue are swept The sea's long "ar."

And e'er since mirroring in their sheen The young day's bright flush, They've welcomed from her ocean coast The morning's rosy blush.

The south winds sweep the meadow grass And daisies wake from sleep, And bluebirds murmur chiming like those The elfin measures keep.

And wandering where the sunbeams lurk, The jessamine springs to life, And lifts aloft the golden bloom, With soul of fragrance ripe.

As on Alhambra's pinnon proud The crimsoned blossoms glow, And gain the green and blueish box Their ruby radiance throw.

Affairs the scarlet poppies gleam Along the river's brink, And draping root and tree and shrub The woodland tendrils cling.

Now spinning through the fragrant air The shining hum-bird dips, And from each ray dew-brimmed cup Wine rich as Xeres sips.

Above them all night's shuttle weaves The moonlight's tissue pale, And o'er the soft enchanting scene Fair falls the silvery veil.

I hear a sweet, wild minstrelsy From mockingbird's aloft— And with it in its pathos deep The whippoorwill's note.

Now Autumn comes in Tyrian robes, While frost on white and blue, Her banners flushing earth and sky With gold and crimson beams.

Upon the old Colonial glow The ruddy embers gleam, And o'er the soft enchanting scene Soft footsteps come and go.

O'er echoing through the velds fair I hear their steps who walked in white, Holy whisperings fill the air, "Mid shimmering robes of light; And white-browed loved ones sleeping there."

From that dear house shall rise Upon the resurrection morn For millions in the skies, And first and last the loud acclaim A mother's song shall ring: The children Thou hast given me In Christ's dear name I bring.

"The Melancholy Days Have Come, the saddest of the year," not when autumn's leaves are falling, but when a fellow gets ill. The "sore and yellow fever" is in his company, and he is in a most anxious state. Hostetter's Stomach Bitters will soon discipline his rebellious stomach, and healthfully stimulate his kidneys. Malaria, rheumatism, and nervousness are also relieved by the Bitters.

THE WAR GAMES.

War games are also played by the students, and these form the most interesting feature of the work. There are three games in all, the "Duel," "Tactics," and "Strategy."

In the "Duel" the object is to teach the skillful handling of a ship in the presence of an adversary. The object is to teach each of whom is supposed to be in command of a rival ship. The type of the

ships is settled by mutual consent. An umpire supervises the game, his decisions being final.

Let us suppose, for example, that an enemy's vessel of the Iowa type is approaching an American vessel of the New York type. The position of these vessels, when they first sight each other, is indicated on the map. Now it is obvious that the available force of each commander to take advantage of all the possibilities of his boat and of all the weaknesses of his rival victory will depend from minute to minute every turn of

PLAY GAMES OF WAR

Odd Work in the Newport Naval College.

GIVES VALUABLE EXPERIENCE.

All Problems During the Past Year Were Based on the Presumption

That England Had Declared War.

(Written for the Dispatch.)

Should war actually be declared between the United States and Great Britain, this country will not be in the best condition which foreign and domestic croakers have pictured it. Within the past week some sneering German military authorities declared that the United States are where Germany was in the nineteenth century, as far as the fighting arm of its army and navy is concerned. The absurdity of this statement is so apparent that it needs no further comment, but it illustrates in an exaggerated way the foreign idea of Uncle Sam's ability, or inability, to take care of his interests.

Very little is known, outside of military and naval circles, of an institution which would prove a most important factor to the United States should the war break out.

The object of the game is to dispose of your ships with respect to one another, to the enemy, to friendly or unfriendly fortifications, to shoals or passages, and to the elements of the weather. The object of the game is to determine the final issue of the battle.

THE HARDEST GAME.

We now come to the most complicated and important of all the games—"Strategy." This represents not a single light, but a complete campaign of two rival armies. The entire class of students is divided into four, each sub-division being called a committee. Two of the committees are given the offensive power, and the other two the defensive power. Each committee is given a fleet of ships, and each committee is given a fleet of ships, and each committee is given a fleet of ships.

WAR-GAME-STRATEGIC SITUATION.

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Delaware Bay—Five Fathom Bank Light-house.

The Third Committee will take the Red.

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After this situation has been thoroughly understood the two rival committees separate into different rooms. Each commander-in-chief issues his general orders to his officers. When they detail a separation of some of the ships from the main fleet the officers representing those ships must go into a room by themselves, where one ship is separated from its companions that one officer must seclude himself in a single room.

This complicated game may, before the war, be as many rooms as there are players. Each officer or group of officers, each room, in short, has to work out its own problem, unaided exactly as a ship would have to do on the ocean.

It describes its movements on a chart. All the movements of all the vessels are reported as soon as made to an arbitrator in a separate room by himself, who keeps a record of the entire situation.

As soon as any ship belongs to separate rooms in sight of one another, those rooms are notified, and action is taken accordingly.

Of course, if two British ships fall in with one American of the same class, the American is supposed to be gobbled up. And so at every meeting an overwhelming preponderance of force on one side or the other will decide against the weaker.

The game continues until one side is annihilated by the other, or either side wins by gaining the objective, with or without bloodshed.

It can be seen from this that the United States are not in a very deplorable condition which the foreign countries seem to imagine them.

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Interesting Account of a Trip from Richmond to Hongkong.

THE BEAUTIES OF HONOLULU.

Much Like an American City Except

for Its Tropical Appearance—How

a Sabbath Is Lost in Travel—Home of the Japanese.

In the letter that follows, Rev. R. E. Chambers, with his wife and several other missionaries, sent out by the Foreign Mission Board of the Southern Baptist Convention, left a few weeks ago for their field of labor, in China, gives an interesting account of their trip from Richmond to Hongkong, at which place they arrived November 20th:

A trip from Richmond, Va., to Canton, China, furnishes a traveler so many new experiences that he scarcely knows what to mention in a description of it. There is, first, the journey across the United States, and one has no idea how great that country is until he has spent between five and six days crossing it. Then comes the voyage across the broad Pacific, which takes from twelve to fourteen days, when the ship goes directly from San Francisco to Yokohama, Japan, or from there via the Hawaiian Islands. The ship usually calls at two or three points in Japan, and often at Shanghai, before coming to Hongkong.

Passengers for Canton have to come from Hongkong on the first of the ship, so it is usually about a month after the ship leaves San Francisco before the passenger for Canton finds himself at his destination.

The route from Richmond was over the Chesapeake and Ohio railway and connecting lines. The writer takes pleasure in saying that he found the agents of this company and the employees on its trains, and the conductors, all of whom he met, to be of the highest character, and that they were all of the highest character, and that they were all of the highest character.

LIVE AMERICAN CITY.

Two days were spent in St. Louis. This is one of the cities of which the United States has just cause to be proud. Excellent street-car service, magnificent buildings, wide streets, beautiful parks, and the largest, most costly, and best equipped depot in the world, are among its many attractions. St. Louis, in the western American sense, is a city of the future. It is a city of the future, and it is a city of the future.

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